

09/763908

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PATENT

Attorney Docket No. 3552 P 002

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application of:  
WANG/McCORMICK

From: PCT/GB98/02952 and GB 9818790.9

For: A&M FOR DETECTING ABNORMALITIES  
IN BODILY MATTER

*Re McCormick #6*  
PRELIMINARY AMENDMENT

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

ATTN: BOX PATENT APPLICATION/WITH FEE

Please amend the above-identified application as follows:

IN THE CLAIMS:

Please cancel Claims 1-28 without prejudice.

Please add the following new claims:

29. An electrical tomographic method for detecting abnormalities in bodily matter comprising the steps of:

generating electrical signals at a plurality of frequencies;

applying the electrical signals to the bodily matter using an electrode arrangement;

detecting electrical impedance properties of the bodily matter; and,

using data processing means correlating the detected electrical impedance properties with the presence or absence of abnormalities in the bodily matter using a fractal model of tissue impedance.

30. The method of claim 29 wherein the electrical signals applied to the bodily matter have a frequency greater than 1 MHZ.
31. The method of claim 29 wherein the electrical signals applied to the bodily matter have a frequency greater than 4 MHZ.
32. The method according to Claim 29, wherein the detected electrical impedance properties are selected from the group consisting of  $Z_i$ ,  $Z_x$ ,  $Z_{x_{com}}$ ,  $Z_m$ ,  $Z_{m_{com}}$ ,  $C_m$  and  $C_{m_{com}}$ .

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